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**Amendments to the Specification**

Please amend the title as follows:

**Modeling and Evaluating Metabolic Reaction Pathways and Culturing Cells**

Please amend the paragraph beginning on page 33, line 5 as follows:

The initial specification included 27 bootstrap compounds, 111 transportable compounds, 1334 reactions, and 39 essential compounds. First, the bootstrap compounds were pruned from the specification. This process required less than 1 second of cpu time.